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<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/634,436	ISMAILOV, MURAD	
	<b>Examiner</b>	<b>Art Unit</b>	
	Vuthe Siek	2825	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to communicatoin on 8/5/03 and 1/20/04.
2. ☒ The allowed claim(s) is/are 1-22.
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☒ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date here with.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

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|--|---|
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____</li> <li>7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____</li> </ol> |
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**VUTHE SIEK**  
**PRIMARY EXAMINER**

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### **DETAILED ACTION**

1. This office action is in response to application 10/634,436 filed on 8/8/2003. Claims 1-22 remain pending in the application.

### ***Examiner's Amendment***

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with on .

The application has been amended as follows:

**In specification:** page 5, "Fig. 7A-7" has been changed to --Fig. 7A-7D--; page 6, "Fig. 17" has been changed to --Fig. 17A-17F--; page 6, "Fig. 23" has been changed to --Fig. 23A-23B--; page 6, "Fig. 24" has been changed to --Fig. 24A-24B--; page 33, third paragraph, "Fig. 17" has been changed to --Fig. 17A-17B--; page 47, section 6., "Fig. 23" has been changed to --Fig. 23A-23B--; page 48, section 7. "Fig. 24" has been changed to --Fig. 24A-24B--. The changes correct minor informalities.

**In drawing:**

The following changes to the drawings have been approved by the examiner and agreed upon by applicant: Fig. 1A-1C, 2-5, 6A-6D, 7A-7D and 8 have been

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labeled (PRIOR ART). In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

### **EXAMINER'S STATEMENT AS TO THE REASONS FOR ALLOWANCE**

3. Claims 1-22 are allowed over the prior art of record.
4. The following is an examiner's statement of reasons for allowance: the prior art of record does not teach or fairly suggest a method for constructing and designing a circuit for controlling an electromagnetic actuator, where the electromagnetic actuator includes a coil having associated therewith a resistance  $R_1$  and an inductor  $L_1$ , comprising modeling the electromagnetic actuator with an equation; calculating at least one resistance  $R_{2j}$  and at least one inductance  $L_{2j}$ , each of which is associated with at least one theoretical coil electrically connected to and physically remote from the electromagnetic actuator, where the resistance  $R_{2j}$  and the inductance  $L_{2j}$  are calculated by to satisfy the equation using at least the function as defined in the claims; and electrically connecting current supply means to the coil of the electromagnetic actuator, where the current supply means are configured to substantially simulate the electrical effect of each theoretical coil having the calculated resistance  $R_{2j}$  and the calculated inductance  $L_{2j}$ .

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vuthe Siek whose telephone number is (703) 305-4958. The examiner can normally be reached on M-F (6:30-4:00) 2nd Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Smith can be reached on (703) 308-1323. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Vuthe Siek



**VUTHE SIEK  
PRIMARY EXAMINER**